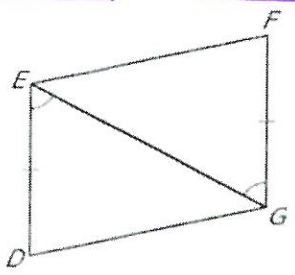
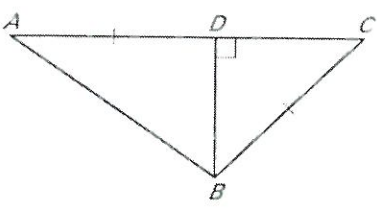
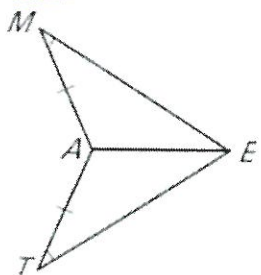


Homework 51_FORM A
Congruent Triangles AAS, SSA, AAA

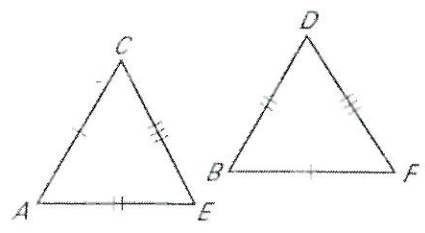
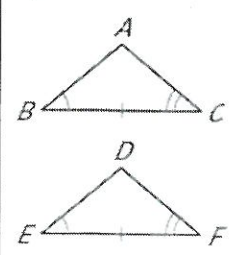
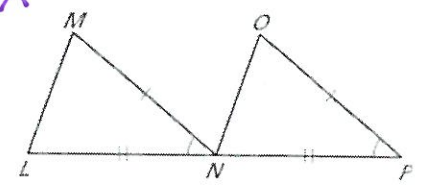
Name: _____
Period: _____ Date: _____

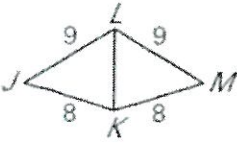

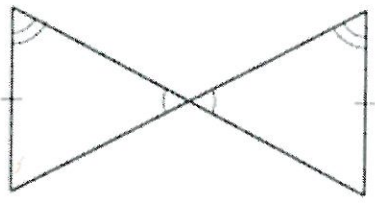
Directions: Show all your work and write in complete sentences when needed.

For #1- 3, determine if the two triangles are congruent. If so, write a congruency statement and identify what postulate is needed to prove congruency.

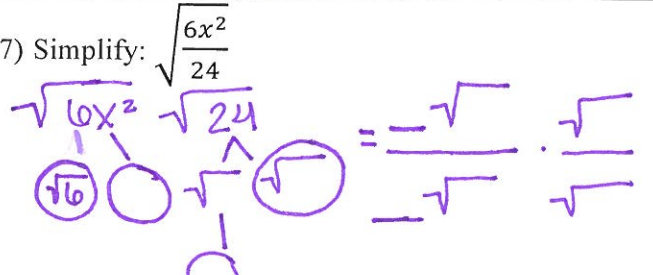
<p>1) <u> \cong </u></p> 	<p>2) \cong </p> 	<p>3) <u> \cong </u></p> 
<p>4) Use the given coordinates to determine if $\triangle ABC \cong \triangle DEF$. $A(1, 2), B(4, -3), C(2, 5), D(4, 7), E(7, 2), F(5, 10)$</p>	<p>5) Use the given coordinates to determine if $\triangle ABC \cong \triangle DEF$. <u>* DISTANCE FORMULA *</u> $A(1, 1), B(4, 0), C(7, 5), D(4, -5), E(6, -6), F(9, -1)$</p>	

For #6-11, determine if the two triangles are congruent. If so, write a congruency statement and identify what postulate is needed to prove congruency.

<p>6) \cong </p> 	<p>7)</p> 	<p>8) \cong </p> 
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<p>9)</p> 	<p>10)</p> 	<p>11)</p> 
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Mixed Review - ALL PROBLEMS #'s 1-8

<p>1) What are the values that would make the following expression undefined?</p> $\frac{2}{x^2 - 3x + 10}$	<p>2) What is the distance between the following two points?</p> <p>(1, 5) (3, -4)</p>
<p>5) An equation of a line in the (x, y) coordinate plane is given as:</p> $-5x - 10 = 15y$ <p>a) What is the slope of this line?</p> <p>b) At what point (x, y) will this line cross the x-axis?</p> <p>c) At what point (x, y) will this line cross the y-axis?</p>	<p>6) The points (4, 6) and (9, 10) are on line a. Find the equation for the line that is parallel to line a and passes through point (0, 4).</p> <p>a) $y = \frac{5}{4}x + 4$</p> <p>b) $y = -\frac{5}{4}x - 4$</p> <p>c) $y = \frac{5}{4}x + 4$</p> <p>d) $y = \frac{4}{5}x + 4$</p> <p>e) $y = \frac{4}{5}x - 4$</p>
<p>7) Simplify: $\sqrt{\frac{6x^2}{24}}$</p> 	<p>8) If $3\sqrt{8x} + 2 = 14$, then $x = ?$</p> 